



(11)

EP 2 010 410 B1

(12)

EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention of the grant of the patent:
09.12.2009 Bulletin 2009/50

(51) Int Cl.:
B60N 2/68 (2006.01)

(21) Application number: **07739954.1**

(86) International application number:
PCT/JP2007/056516

(22) Date of filing: **20.03.2007**

(87) International publication number:
WO 2007/111340 (04.10.2007 Gazette 2007/40)

(54) SEAT BACK FRAME FOR A VEHICLE

RÜCKENLEHNENRAHMEN FÜR EIN FAHRZEUG

ARMATURE DE DOSSIER DE SIÈGE POUR VÉHICULE

(84) Designated Contracting States:
DE FR GB

- KANEDA, Kouji**
Kariya-shi, Aichi 4488651 (JP)

(30) Priority: **23.03.2006 JP 2006081149**

(74) Representative: **Smith, Samuel Leonard**
J.A. Kemp & Co.
14 South Square
Gray's Inn
London WC1R 5JJ (GB)

(43) Date of publication of application:
07.01.2009 Bulletin 2009/02

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DE-A1- 3 239 292 JP-A- 11 032 865

(73) Proprietors:

- TOYOTA JIDOSHA KABUSHIKI KAISHA**
Aichi-ken, 471-8571 (JP)
- Toyota Boshoku Kabushiki Kaisha**
Kariya-shi,
Aichi-ken 448-8651 (JP)

Remarks:

The file contains technical information submitted after the application was filed and not included in this specification

(72) Inventors:

- ISHIJIMA, Takahiro**
Toyota-shi, Aichi 4718571 (JP)

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Description

Technical Field

[0001] The present invention relates to a seat back frame for a vehicle which is disposed in a seat back for a vehicle.

Background Technology

[0002] In a seat back frame for a vehicle, there are cases in which a frame in which a plate member is made to have a U-shaped, open cross-sectional configuration (the cross-sectional configuration has an open portion) is applied. In such a frame, in order to suppress the amount of bending deformation at the time of a rear collision, flat tube portions or reinforcing members are mounted to the vertical frame (see, for example, Japanese Patent Application Laid-Open (JP-A) No. 11-32865).

[0003] However, in this conventional seat back frame for a vehicle, the problem arises that an increase in the number of parts leads to an increase in weight.

[0004] DE 32 39 292 A, upon which the precharacterising portion of appended claim 1 is based, describes a backrest frame for seats, in particular for motor vehicle seats, consisting essentially of a cross-beam and backrest side panels connected thereto. These backrest side panels have connection lugs arranged at their ends for connection to joint parts assigned to the seat cushion frame, the backrest side panels having an approximately U-shaped cross-section and the side web of each backrest side panel tapering, starting from the region of its connecting lugs, up to the joining point with the cross-beam. In order to reduce the effect on the seat user of acceleration forces caused by accidents due to deflection movements of the backrest, apart from the side web of each backrest side panel the limb adjoining it at the rear is also tapered towards the cross-beam and extended in relation to the other limb. In order to increase the creasing stability with optimum use of material, at least one of the limbs, adjoining the side web, of at least one backrest side panel has inwardly and/or outwardly shaped wall parts relative to the vertical plane of the side web.

Disclosure of the Invention

[0005] In view of the above-described facts, the subject of the present invention is to provide a seat back frame for a vehicle which can suppress the amount of bending deformation at the time of a rear collision, without leading to an increase in weight.

[0006] Accordingly to the present invention, there is provided a seat back frame for a vehicle as defined in appended claim 1.

[0007] In accordance with the seat back frame for a vehicle of the above-described aspect of the present invention, not only does the first extending portion bend

and extend from the frame plate side portion toward the seat back inner side at an obtuse angle, but also, at a vicinity of the central portion of the flange portion, the second extending portion bends and extends from the first extending portion further toward the seat back inner side. Therefore, even if a relatively large load toward the rear of the vehicle acts on the seat back frame and stress arises at the flange portion such as compressive stress arises at the intermediate portion of the rear flange portion in the seat back heightwise direction or the like, it is difficult for cross-sectional collapsing to arise, and the load can be effectively supported at the frame side plate portion. In this way, the amount of bending deformation at the time of a rear collision can be suppressed merely by changing the configuration of the seat back frame, without mounting a reinforcing member or the like.

[0008] Namely, in accordance with the seat back frame for a vehicle of the above-described aspect of the present invention, there is the excellent effect that the amount of bending deformation at the time of a rear collision can be suppressed without leading to an increase in weight.

[0009] The structure of the above-described aspect of the present invention has the feature that at least one of the front and rear flange portions has the first extending portion and the second extending portion, and extends such that an angle formed by the frame side plate portion and an imaginary line, which connects a distal end portion of the flange portion and a bent inner side portion from the frame side plate portion toward the flange portion, is an obtuse angle.

[0010] In accordance with the seat back frame for a vehicle of the above-described structure, at least one of the front and rear flange portions has the first extending portion and the second extending portion, and extends such that an angle formed by the frame side plate portion and an imaginary line, which connects a distal end portion of the flange portion and a bent inner side portion from the frame side plate portion toward the flange portion, is an obtuse angle. Therefore, the rigidity, at at least one of the front and rear flange portions, with respect to bending deformation toward the frame side plate portion is high, and, even if a relatively large load toward the rear of the vehicle acts on the seat back frame and stress (tensile stress in the case of the front flange portion, and compressive stress in the case of the rear flange portion) arise at the intermediate portion of the flange portion in the seat back heightwise direction, it is difficult for the flange portion to bendedly deform toward the frame side plate portion.

[0011] Namely, in accordance with the seat back frame for a vehicle of the above-described structure, because it is difficult for at least one of the front and rear flange portions to bendedly deform toward the frame side plate portion, as a result, there is the excellent effect that the amount of bending deformation of the entire seat back frame at the time of a rear collision can be suppressed.

Brief Description of the Drawings

[0012]

Fig. 1 is a perspective view showing a seat for a vehicle to which a seat back frame for a vehicle relating to an embodiment of the present invention is applied.

Fig. 2 is a perspective view showing the seat back frame for a vehicle relating to the embodiment of the present invention.

Fig. 3 is a cross-sectional view showing a cross-section along line 3-3 of Fig. 1.

Best Mode for Carrying Out the Invention

[0013] An embodiment of a seat back frame for a vehicle in the present invention will be described on the basis of the drawings. Note that arrow UP in the drawings indicates the upward direction of the vehicle, and arrow FR indicates the frontward direction of the vehicle.

(Structure of Embodiment)

[0014] A frame perspective view of a seat 10 for a vehicle is shown in Fig. 1. As shown in Fig. 1, the seat 10 for a vehicle is structured to include a seat cushion 12 which supports the buttocks of a vehicle occupant; a seat back 14 which is supported at the rear end portion of the seat cushion 12 so as to be able to be tilted, and which supports the back of the vehicle occupant; and a head rest 16 which is provided at the upper end portion of the seat back 14 so as to be able to be adjusted up and down, and which supports the head portion of the vehicle occupant. Further, the seat cushion 12 has a seat cushion frame 18 which structures the skeleton portion of the seat cushion 12, and the seat back 14 has a seat back frame 20 which structures the skeleton portion of the seat back 14. Note that an elastically deformable seat back pad (not shown) is mounted to the seat back frame 20, and the surface of the seat back pad is covered by a surface covering material (not shown).

[0015] The seat back frame 20 has side portions (side frames) 22, which are disposed in the transverse direction (the direction of arrow 14W) side portions of the seat back 14 and extend in the heightwise direction (the direction of arrow 14H) at the seat back 14, and a top portion (top frame) 24, which is disposed along the transverse direction of the seat back 14 (the direction of arrow 14W) in the upper end portion of the seat back 14 and is connected to the side portions 22, such that the seat back frame 20 is formed in a substantial U-shape overall.

[0016] The top portion 24 is formed by folding a pipe member into a substantial U-shape, and the both end portions thereof are securely mounted to the side portions 22 by arc welding. Supporting tube portions 26 are arc-welded near the seat back 14 transverse direction (arrow 14W direction) center of the top portion 24, and

stays (not shown) for the heat rest 16 can be inserted into and removed from the supporting tube portions 26.

[0017] As shown in Fig. 1 and Fig. 2, the side portion 22 is formed by folding a plate member over by press molding, and has a frame side plate portion 30 which makes a plane including the seat front-back direction and the seat heightwise direction be a general surface 30A, i.e., a frame side plate portion which extends in the seat front-back direction and heightwise direction and generally includes a plane which is approximately parallel to the both directions, and a front flange portion 40 extending toward the seat back inner side from a front end portion 30B of the frame side plate portion 30, and a rear flange portion 50 extending toward the seat back inner side from a rear end portion 30C of the frame side plate portion 30. Accordingly, the pair of the left and right side portions 22 have substantially U-shaped, open cross-sections. Note that the both end portions of the aforementioned top portion 24 are welded to the upper portions 5 of the side portions 22 at the inner sides of the open cross-sections. The heightwise direction (the same direction as the direction of arrow 14H) intermediate portion of the side portion 22 as seen in side view is slightly warped in a direction of being convex toward the vehicle front side.

[0018] As shown in Fig. 3 which is a horizontal cross-section of the side portion 22, the front flange portion 40 has a front first extending portion 42, which is bent at an obtuse angle from the frame side plate portion 30 toward the seat back inner side (the inner side in the transverse direction (the direction of arrow 14W) at the seat back 14) and extends to a vicinity of the central portion (the portion which is substantially the center) of the front flange portion 40, and a front second extending portion 44, which is bent and extends from the front first extending portion 42 toward the seat back inner side at an obtuse angle. Namely, a bending angle $\theta 1$ at a bent portion 31 which is bent from the frame side plate portion 30 toward the front first extending portion 42 is an obtuse angle, and a bending angle $\theta 2$ at a bent portion 40A which is bent from the front first extending portion 42 toward the front second extending portion 44 also is an obtuse angle. Note that the bent portion 31 and the bent portion 40A are formed to be curved, i.e., so as to have substantially curved surfaces. Further, the front flange portion 40 has a final end portion 46 (undercut portion) which extends from the front second extending portion 44 and is curved in the shape of an arc which is concave toward the vehicle rear side.

[0019] Here, the front first extending portion 42 and the front second extending portion 44 form a convex shape which is convex toward the vehicle front side (the outer side of the open cross-section). Further, an angle θA formed by the frame side plate portion 30 and a first imaginary line 40L, which connects a bent inner side portion 32 from the frame side plate portion 30 to the front flange portion 40 and a distal end portion 46A of the front flange portion 40 (i.e., the distal end portion 46A of the

final end portion 46), is an obtuse angle.

[0020] The rear flange portion 50 has a rear first extending portion 52, which is bent at an obtuse angle from the frame side plate portion 30 toward the seat back inner side (the inner side in the transverse direction (the direction of arrow 14W) at the seat back 14) and extends to a vicinity of the central portion (the portion which is substantially the center) of the rear flange portion 50, and a rear second extending portion 54, which is bent and extends from the rear first extending portion 52 toward the seat back inner side at an obtuse angle. Namely, a bending angle $\theta 3$ at a bent portion 33 which is bent from the frame side plate portion 30 toward the rear first extending portion 52 is an obtuse angle, and a bending angle $\theta 4$ at a bent portion 50A which is bent from the rear first extending portion 52 toward the rear second extending portion 54 is an obtuse angle (in the present embodiment, $160^\circ \leq \theta 4 \leq 170^\circ$). Note that the bent portion 33 and the bent portion 50A are formed to be curved, i.e., so as to have substantially curved surfaces. Further, the rear flange portion 50 has a final end portion 56 (undercut portion) which extends from the rear second extending portion 54 and is curved in the shape of an arc which is concave toward the vehicle front side.

[0021] Here, the rear first extending portion 52 and the rear second extending portion 54 form a convex shape which is convex toward the vehicle rear side (the outer side of the open cross-section). Further, an angle θB formed by the frame side plate portion 30 and a second imaginary line 50L, which connects a bent inner side portion 34 from the frame side plate portion 30 to the rear flange portion 50 and a distal end portion 56A of the rear flange portion 50 (i.e., the distal end portion 56A of the final end portion 56), is an obtuse angle. In other words, the distal end portion 56A of the rear flange portion 50 is provided at a position which is toward the seat back rear side, as compared with the bent inner side portion 34 from the frame side plate portion 30 to the rear flange portion 50.

[0022] In order to ensure strength with respect to torsion, the rear flange portions 50 are set to be long. Because the front flange portions 40 are disposed at the both sides of the back side of the vehicle occupant in a seated state, in the present embodiment, the front flange portions 40 are set to be short as compared with the rear flange portions 50.

(Operation of the Embodiment)

[0023] Operation of the above-described embodiment will be described next.

[0024] At the seat 10 for a vehicle shown in Fig. 1, in a case in which a relatively large load F toward the rear of the vehicle is applied to the seat back frame 20 at the time of a rear collision, as shown in Fig. 2, compressive stress P arises at the intermediate portion in the heightwise direction (the same direction as the direction of arrow 14H) at the rear flange portion 50, and tensile stress

Q arises at the intermediate portion in the heightwise direction (the same direction as the direction of arrow 14H) at the front flange portion 40. In this way, a large load F1 acts toward the vehicle front side on the heightwise direction intermediate portion of the rear flange portion 50 in accordance with the warped configuration of the side portion 22, and a load F2 which is smaller than the load F1 acts toward the vehicle rear side on the heightwise direction upper and lower portions of the front flange portion 40.

[0025] As a result, the large load F1, which acts on the heightwise direction intermediate portion of the rear flange portion 50 shown in Fig. 3, acts as a bending moment which attempts to bend the rear flange portion 50 toward the frame side plate portion 30 (force attempting to collapse the rear flange portion 50 toward the inner side of the open cross-section of the side portion 22). The load F2, which acts on the heightwise direction upper and lower portions of the front flange portion 40, acts as a bending moment which attempts to bend the front flange portion 40 toward the frame side plate portion 30 (force attempting to collapse the front flange portion 40 toward the inner side of the open cross-section of the side portion 22).

[0026] Here, with regard to the rear flange portion 50, not only does the rear first extending portion 52 bend and extend from the frame side plate portion 30 toward the seat back inner side at an obtuse angle, but also, the rear second extending portion 54 bends and extends from the rear first extending portion 52 further toward the seat back inner side in a vicinity of the central portion of the rear flange portion 50, and the angle θB is an obtuse angle. Therefore, at the heightwise direction intermediate portion, even if the large load F1 is applied, it is difficult for the rear flange portion 50 to bendingly deform toward the frame side plate portion 30 (the inner side of the open cross-section). Further, with regard to the front flange portion 40 as well, at the heightwise direction upper and lower portions, even if the load F2 is applied, it is similarly difficult for the front flange portion 40 to bendingly deform toward the frame side plate portion 30 (the inner side of the open cross-section).

[0027] In this way, even if the load F1 and the load F2 are applied, it is difficult for cross-sectional collapsing, in which there is bending toward the inner side of the open cross-section, of the side portion 22 to arise. Therefore, the load F1 and the load F2 can be effectively supported at the frame side plate portion 30.

[0028] In this way, in a case in which the load F (see Fig. 2) is extremely large, as shown by the side portion 22 of the two-dot chain line in Fig. 3, the side portion 22 bendingly deforms from the central portion of the frame side plate portion 30 (the center line of the side portion 22 in the cross-section of Fig. 3 is denoted by CL), and, at the portions of the side portion 22 other than the central portion of the frame side plate portion 30, the cross-sectional configuration shown in Fig. 3 is maintained to the end and hardly deforms at all. In other words, this is a

structure which uses the cross-section coefficient to the maximum limit, and, until before the frame side plate portion 30 shown in Fig. 2 bends, the side portion 22 of the seat back frame 20 does not buckle, and can efficiently utilize the proof stress of the side portion 22. In this way, the buckling of the side portion 22 ends in the bending mode (buckling mode) of the frame side plate portion 30 shown by the two-dot chain line in Fig. 3.

[0029] As described above, in accordance with the seat back frame 20 of the present embodiment, the amount of bending deformation at the time of a rear collision can be suppressed and the safety of the vehicle occupant can be ensured, merely by changing the configuration of the side portions 22 of the seat back frame 20 and without mounting a reinforcing member or the like, i.e., without leading to an increase in weight.

[0030] Further, in a case of forming the side portion 22 which has bending strength equivalent to that of a seat back frame side portion in a conventional, simply substantially U-shaped structure, the unfolded length of the plate member can be greatly (about 15%) shortened, and therefore, a decrease in costs can be aimed for.

[0031] Moreover, even in molding the undercut portions such as the final end portions 46, 56, conventionally, there is the need for the additional processes of shift-bending and of pressing after the angle change. However, by employing the present configuration, pre-bending is possible, and the processes also can be shortened.

(Another Embodiment)

[0032] In the above-described embodiment, as shown in Fig. 3, the front flange portion 40 has the front first extending portion 42 and the front second extending portion 44, and the rear flange portion 50 has the rear first extending portion 52 and the rear second extending portion 54. However, for example, there may be a structure in which the front flange portion 40 is not provided with the front first extending portion 42 and the front second extending portion 44 and is merely a flange, and only the rear flange portion 50 is provided with the rear first extending portion 52 and the rear second extending portion 54. Or, there may be a structure in which the rear flange portion 50 is not provided with the rear first extending portion 52 and the rear second extending portion 54 and is merely a flange, and only the front flange portion 40 is provided with the front first extending portion 42 and the front second extending portion 44. Note that, because the large load F1 acts on the heightwise direction intermediate portion at the rear flange portion 50 at the time of a rear collision, a structure in which at least the rear flange portion 50 is provided with the rear first extending portion 52 and the rear second extending portion 54 is preferable.

[0033] Moreover, in the above-described embodiment, as shown in Fig. 1 and Fig. 2, the seat back frame 20 is formed in a substantially U-shaped configuration in which the top portion 24 which is a separate body is weld-

ed to the side portions 22. However, for example, a seat back frame may be structured by folding a plate member, which has the cross-sectional configuration of the side portion 22 shown in Fig. 3, into a substantial U shape.

5 Namely, the seat back frame for a vehicle may be structured so as to further have a top frame which is disposed along a transverse direction of the seat back in an upper end portion of the seat back, and is connected to the frame side plate portion, wherein the top frame has a
10 frame upper plate portion which includes a plane extending substantially in the seat front-back direction, and flange portions extending toward the seat back inner side from a front end portion and a rear end portion of the frame top plate portion respectively, and at least one of
15 the front and rear flange portions has a first extending portion bent at an obtuse angle from the frame upper plate portion toward the seat back inner side and extending to a vicinity of a central portion of the flange portion, and a second extending portion bent and extending from
20 the first extending portion toward the seat back inner side.
[0034] Further, the number of places of bending at the flange portion is not limited to the number in the above-described embodiment such as, for example, a third extending portion which bends and extends from the second extending portion toward the seat back inner side
25 may be provided, or the like.

Industrial Applicability

30 **[0035]** The present invention can be applied to the frame of a seat back of a seat for a vehicle, and can provide a seat back frame for a vehicle which can suppress the amount of bending deformation of a frame at the time of a rear collision without leading to an increase in weight.

Description of the Reference Numerals

[0036]

40	14	seat back
	14W	transverse direction of seat back
	20	seat back frame (seat back frame for vehicle)
	22	side portion
45	30	frame side plate portion
	30A	general surface
	30B	front end portion
	30C	rear end portion
	32	bent inner side portion
50	34	bent inner side portion
	40	front flange portion (flange portion)
	40L	first imaginary line (imaginary line)
	42	front first extending portion (first extending portion)
55	44	front second extending portion (second extending portion)
	46A	distal end portion of front flange portion (distal end portion of flange portion)

50 rear flange portion (flange portion)
 50L second imaginary line (imaginary line)
 52 rear first extending portion (first extending portion)
 54 rear second extending portion (second extending portion)
 56A distal end portion of rear flange portion (distal end portion of flange portion)

Claims

1. A seat back frame (20) for a vehicle comprising:

a frame side plate portion (30), which is disposed in a transverse direction side portion at a seat back (14) and generally includes a plane which is parallel to a seat front-back direction; and flange portions (40, 50) extending toward a seat back inner side from a front end portion (30B) and a rear end portion (30C) of the frame side plate portion (30) respectively, wherein at least one of the front (40) and rear (50) flange portions includes a first extending portion (42) bent at an obtuse angle from the frame side plate portion (30) toward the seat back inner side, and extending to a vicinity of a central portion of the flange portion (40), and a second extending portion (44) bent and extending from the first extending portion (42) toward the seat back inner side,

characterised in that:

the at least one of the front and rear flange portions (40, 50) extends such that an angle formed by the frame side plate portion (30) and an imaginary line, which connects a distal end portion (46A) of the flange portion (40, 50) and a bent inner side portion (32) from the frame side plate portion (30) toward the flange portion (40, 50), is an obtuse angle, and the second extending portion (44) is bent so as to form an obtuse angle toward the seat back inner side with respect to the first extending portion (42).

2. The seat back frame for a vehicle of claim 1, wherein the at least one flange portion includes the rear flange portion (50).
 3. The seat back frame for a vehicle of claim 1, wherein the second extending portion (44) has, at a side opposite the first extending portion (42), a final end portion (46A) which extends from the second extending portion (44) and is curved in an arc shape so as to swell toward a seat back outer side.
 4. The seat back frame for a vehicle of claim 1, wherein

the at least one flange portion (44) has a third extending portion (46) which is bent and extends from the second extending portion (44) toward the seat back inner side.

5. The seat back frame for a vehicle of claim 1, wherein a bent portion between the frame side plate portion (30) and the first extending portion (42), and a bent portion between the first extending portion (42) and the second extending portion (44), are formed to have substantially curved surfaces.

6. The seat back frame for a vehicle of claim 1, further having a top frame which is disposed along a transverse direction (14W) of the seat back in an upper end portion of the seat back (14), and is connected to the frame side plate portion (30), wherein the top frame has a frame upper plate portion which includes a plane extending substantially in the seat front-back direction, and flange portions extending toward the seat back inner side from a front end portion and a rear end portion of the frame top plate portion respectively, and at least one of the front and rear flange portions has a first extending portion bent at an obtuse angle from the frame upper plate portion toward the seat back inner side and extending to a vicinity of a central portion of the flange portion, and a second extending portion bent and extending from the first extending portion toward the seat back inner side.

Patentansprüche

35 1. Sitzlehnenrahmen (20) für ein Fahrzeug mit:

einem Rahmenseitenplattenabschnitt (30), der in einem Seitenabschnitt in Querrichtung an einer Sitzlehne (14) angeordnet ist und im Allgemeinen eine Ebene aufweist, die parallel zu einer Sitzlängsrichtung ist; und Flanschabschnitte (40, 50), die sich jeweils von einem vorderen Endabschnitt (30B) und einem hinteren Endabschnitt (30C) des Rahmenseitenplattenabschnitts (30) zu einer Sitzlehneninnenseite hin erstrecken, wobei zumindest einer von dem vorderen (40) und dem hinteren Flanschabschnitt (50) einen ersten Erstreckungsabschnitt (42), der in einem stumpfen Winkel von dem Rahmenseitenplattenabschnitt (30) zu der Sitzlehneninnenseite hin gebogen ist und sich zu einer Umgebung eines mittleren Abschnitts des Flanschabschnitts (40) erstreckt, und einen zweiten Erstreckungsabschnitt (44) aufweist, der gebogen ist und sich von dem ersten Erstreckungsabschnitt (42) zu der Sitzlehneninnenseite hin erstreckt,

dadurch gekennzeichnet, dass

sich der zumindest eine von dem vorderen und dem hinteren Flanschabschnitt (40, 50) derart erstreckt, dass ein Winkel, der durch den Rahmenseitenplattenabschnitt (30) und einer imaginären Linie ausgebildet wird, die einen distalen Endabschnitt (46A) des Flanschabschnitts (40, 50) und einen gebogenen Innenseitenabschnitt (32) von dem Rahmenseitenplattenabschnitt (30) zu dem Flanschabschnitt (40, 50) hin verbindet, ein stumpfer Winkel ist, und der zweite Erstreckungsabschnitt (44) gebogen ist, um einen stumpfen Winkel zu der Sitzlehneninnenseite hin in Bezug auf den ersten Erstreckungsabschnitt (42) auszubilden.

2. Sitzlehnenrahmen für ein Fahrzeug nach Anspruch 1, wobei der zumindest eine Flanschabschnitt den hinteren Flanschabschnitt (50) aufweist.

3. Sitzlehnenrahmen für ein Fahrzeug nach Anspruch 1, wobei der zweite Erstreckungsabschnitt (44) an einer zu dem ersten Erstreckungsabschnitt (42) gegenüberliegenden Seite einen abschließenden Endabschnitt (46A) hat, der sich von dem zweiten Erstreckungsabschnitt (44) erstreckt und in einer Bogenform gekrümmkt ist, um zu einer Sitzlehnenaußenseite hin ausgebaucht zu sein.

4. Sitzlehnenrahmen für ein Fahrzeug nach Anspruch 1, wobei der zumindest eine Flanschabschnitt (44) einen dritten Erstreckungsabschnitt (46) hat, der gebogen ist und sich von dem zweiten Erstreckungsabschnitt (44) zu der Sitzlehneninnenseite hin erstreckt.

5. Sitzlehnenrahmen für ein Fahrzeug nach Anspruch 1, wobei ein gebogener Abschnitt zwischen dem Rahmenseitenplattenabschnitt (30) und dem ersten Erstreckungsabschnitt (42) und ein gebogener Abschnitt zwischen dem ersten Erstreckungsabschnitt (42) und dem zweiten Erstreckungsabschnitt (44) ausgebildet sind, um im Wesentlichen gekrümmte Flächen aufzuweisen.

6. Sitzlehnenrahmen für ein Fahrzeug nach Anspruch 1, der des Weiteren einen oberen Rahmen hat, der entlang einer Querrichtung (14W) der Sitzlehne in einem oberen Endabschnitt der Sitzlehne (14) angeordnet ist und mit dem Rahmenseitenplattenabschnitt (30) verbunden ist, wobei der obere Rahmen einen Rahmenoberplattenabschnitt, der eine Ebene aufweist, die sich im Wesentlichen in der Sitzlängsrichtung erstreckt, und Flanschabschnitte hat, die sich jeweils von einem vorderen Endabschnitt und einem hinteren Endabschnitt des Rahmenoberplattenabschnitts zu der Sitzlehneninnenseite hin er-

strecken, und zumindest einer von dem vorderen und dem hinteren Flanschabschnitt einen ersten Erstreckungsabschnitt, der in einem stumpfen Winkel von dem Rahmenoberplattenabschnitt zu der Sitzlehneninnenseite hin gebogen ist und sich zu einer Umgebung eines mittleren Abschnitts des Flanschabschnitts erstreckt, und einen Erstreckungsabschnitt hat, der gebogen ist und sich von dem ersten Erstreckungsabschnitt zu der Sitzlehneninnenseite hin erstreckt.

Revendications

15 1. Armature (20) de dossier de siège pour un véhicule comprenant :

une partie de plaque latérale (30) de l'armature, qui est disposée dans une partie latérale dans la direction transversale à un dossier de siège (14) et comprend globalement un plan qui est parallèle à une direction avant-arrière du siège; et des parties de joues (40, 50) s'étendant vers un côté interne du dossier de siège depuis une partie d'extrémité avant (30B) et une partie d'extrémité arrière (30C) de la partie de plaque latérale (30) de l'armature, respectivement, où au moins l'une des parties de joues avant (40) et arrière (50) inclut une première partie en extension (42) fléchie à un angle obtus depuis la partie de plaque latérale (30) de l'armature vers le côté interne du dossier de siège, et s'étendant à proximité d'une partie centrale de la partie de joue (40), et une deuxième partie en extension (44) fléchie et s'étendant depuis la première partie en extension (42) vers le côté interne du dossier de siège,

caractérisée en ce que

la au moins une des parties de joues (40, 50) avant et arrière s'étend de manière à ce qu'un angle formé par la partie de plaque latérale (30) de l'armature et une ligne imaginaire, qui relie une partie d'extrémité distale (46A) de la partie de joue (40, 50) et une partie latérale interne (32) fléchie depuis la partie de plaque latérale (30) de l'armature vers la partie de joue (40, 50), est un angle obtus, et la deuxième partie en extension (44) est fléchie afin de former un angle obtus vers le côté interne du dossier de siège par rapport à la première partie en extension (42).

2. Armature de dossier de siège pour un véhicule de la revendication 1, dans laquelle la au moins une partie de joue inclut la partie de joue arrière (50).

3. Armature de dossier de siège pour un véhicule de la revendication 1, dans laquelle la deuxième partie

en extension (44) possède, à un côté opposé de la première partie en extension (42), une partie d'extrémité finale (46A) qui s'étend de la deuxième partie d'extrémité (44) et est courbée en forme d'arc afin de grossir vers un côté externe du dossier de siège. 5

4. Armature de dossier de siège pour un véhicule de la revendication 1, dans laquelle la au moins une partie de joue (44) possède une troisième partie en extension (46) qui est fléchie et s'étend de la deuxième partie en extension (44) vers le côté interne du dossier de siège. 10

5. Armature de dossier de siège pour un véhicule de la revendication 1, dans laquelle une partie fléchie entre la partie de plaque latérale (30) de l'armature et la première partie en extension (42), et une partie fléchie entre la première partie en extension (42) et la deuxième partie en extension (44), sont formées de manière à avoir des surfaces essentiellement courbées. 15

6. Armature de dossier de siège pour un véhicule de la revendication 1, ayant en plus un cadre supérieur qui est disposé, le long d'une direction transversale (14W) du dossier de siège dans une partie d'extrémité supérieure du dossier de siège (14), et est relié à la partie de plaque latérale (30) de l'armature, où le cadre supérieur possède une partie de plaque supérieure de l'armature qui inclut un plan s'étendant essentiellement dans la direction avant-arrière du siège, et des parties de joues s'étendant vers le côté interne du dossier de siège depuis une partie d'extrémité avant et une partie d'extrémité arrière de la partie de plaque supérieure de l'armature, respectivement, et au moins l'une des parties de joues avant et arrière possède une première partie en extension fléchie à un angle obtus depuis la partie de plaque supérieure de l'armature vers le côté interne du dossier de siège et s'étendant à proximité d'une partie centrale de la partie de joue, et une deuxième partie en extension fléchie et s'étendant de la première partie en extension vers le côté interne du dossier de siège. 20 25 30 35 40 45

50

55

FIG. 1

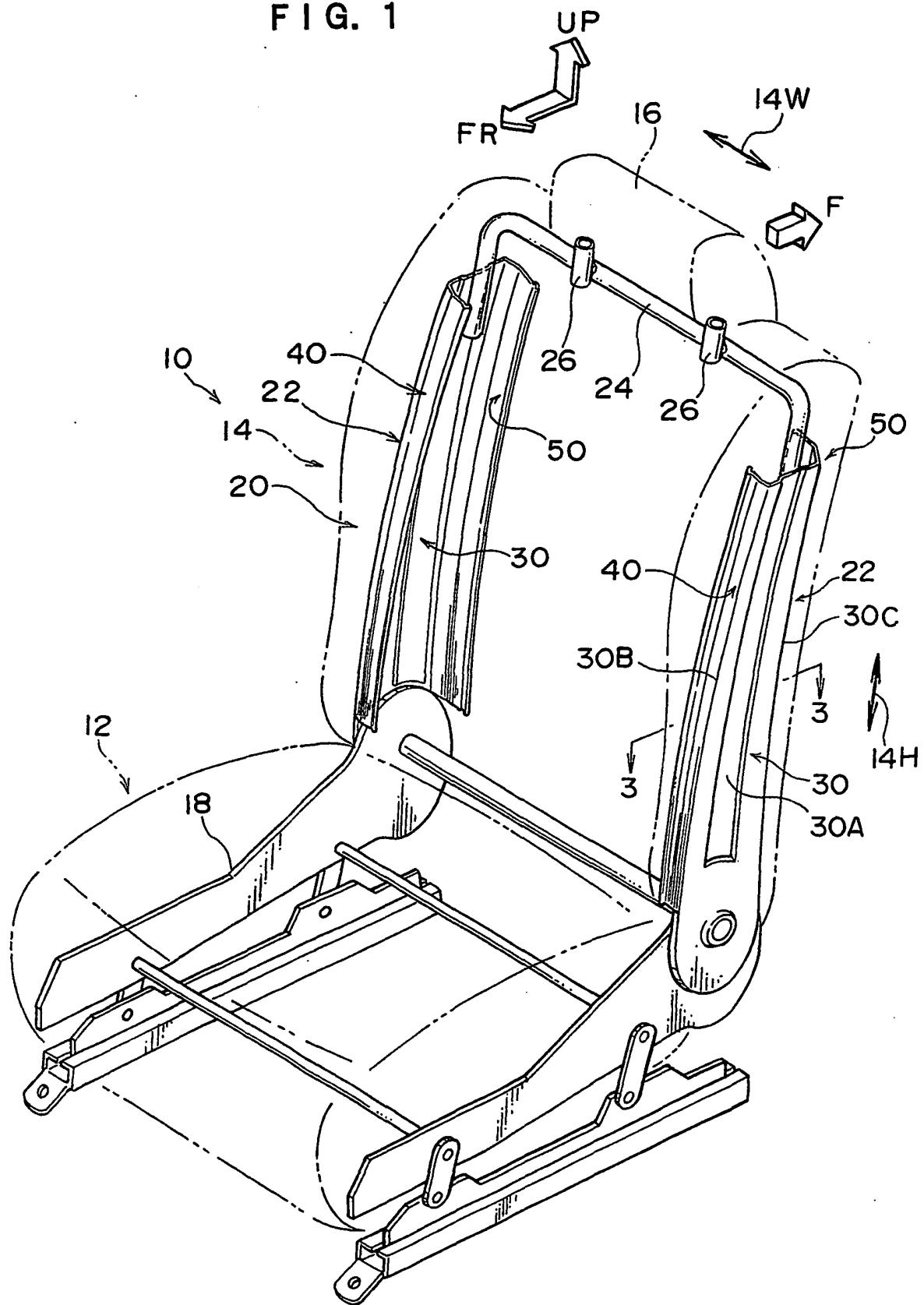
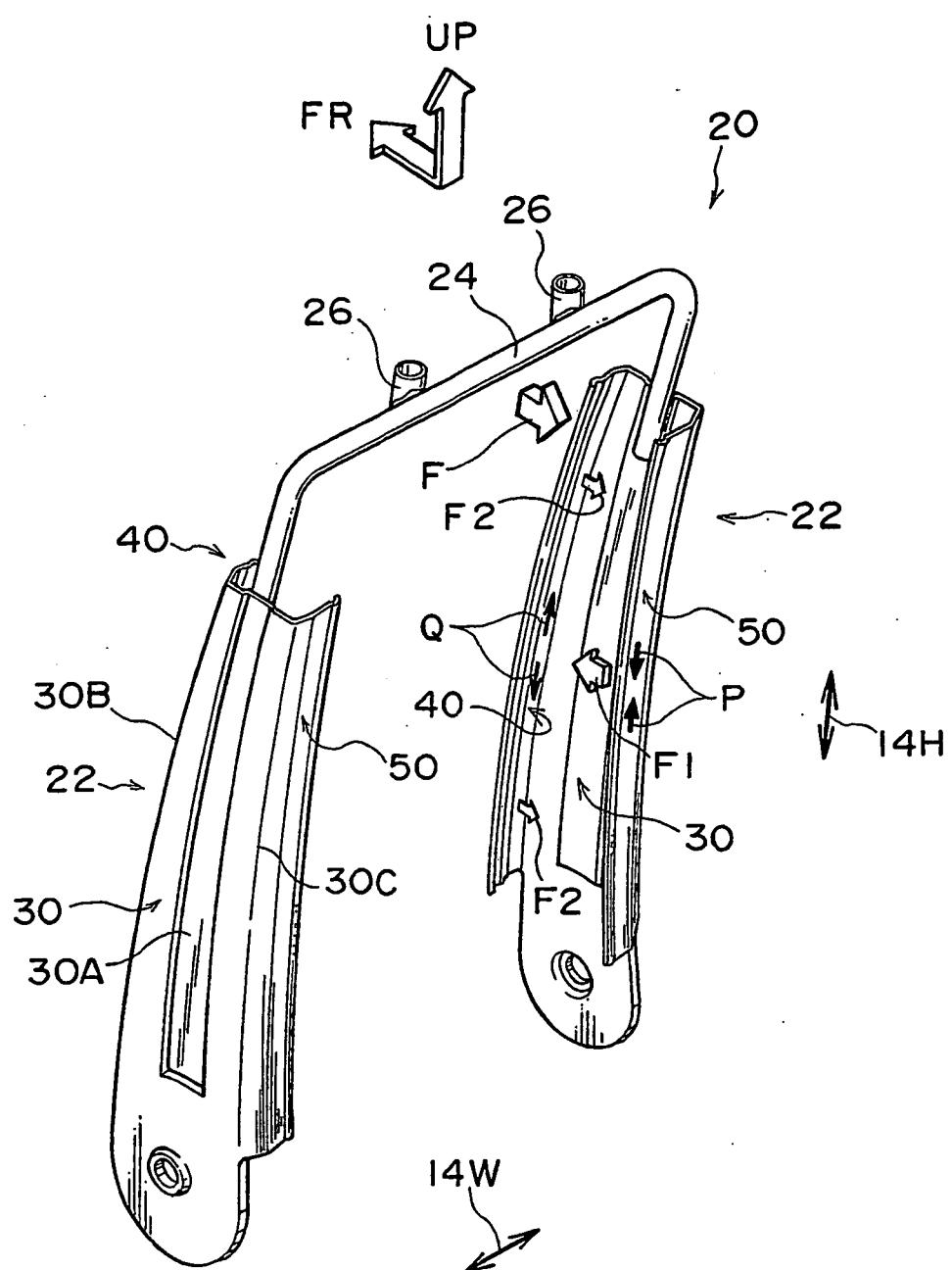
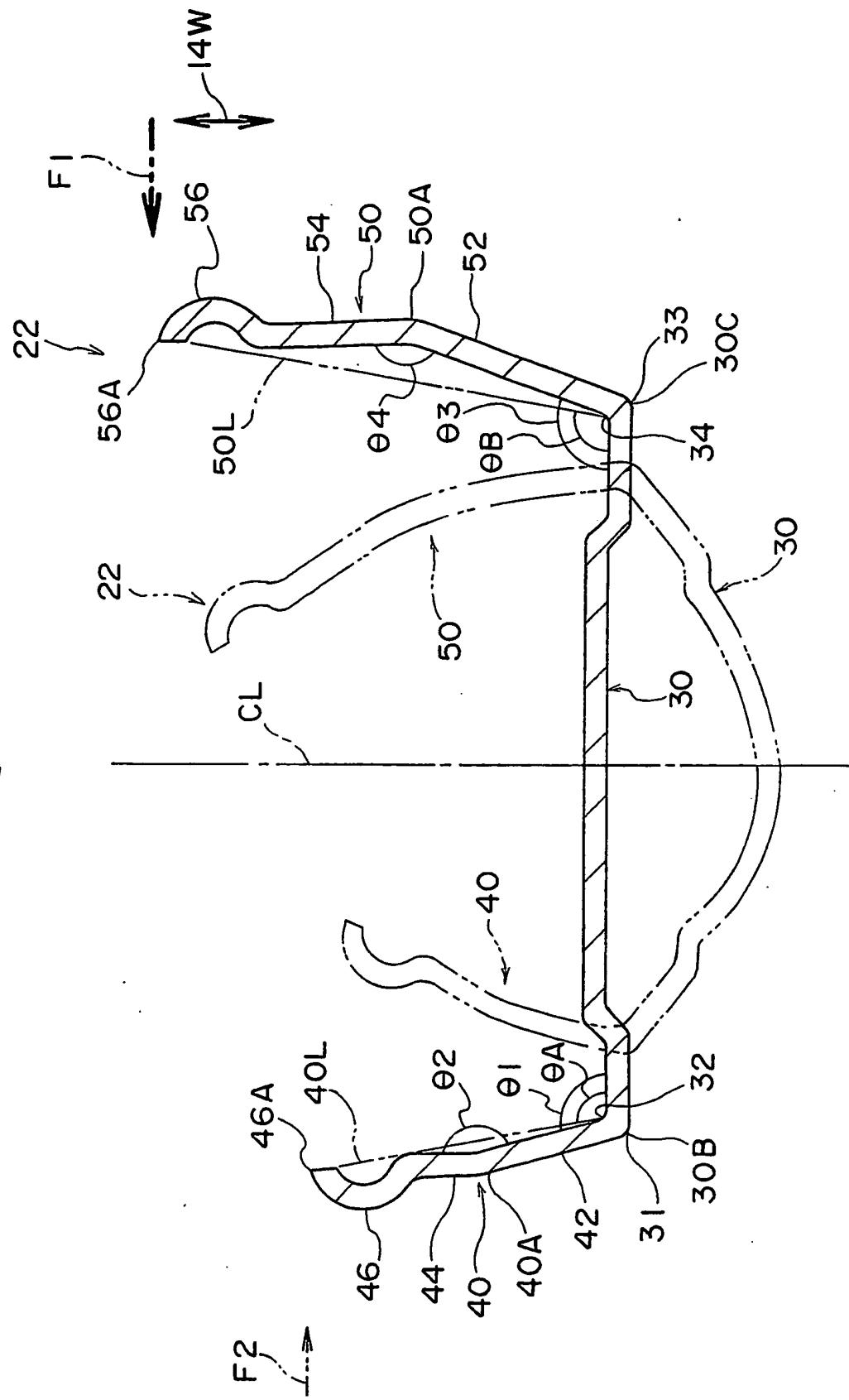


FIG. 2



F - G. 3

FR



REFERENCES CITED IN THE DESCRIPTION

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